## WHAT IS CLAIMED IS:

## 1. A circuit, comprising:

a switch configured to receive a synchronizing signal having an active state, and an inactive state, wherein the switch has an on state activated by the active state and deactivated by the inactive state; and

a current path coupled to the switch, wherein the current path is configured to pass a current when the on state is deactivated, and wherein the switch is configured to pass the current when the on state is activated.

- 2. The circuit of claim 1, wherein the switch includes a bipolar junction transistor and the current path includes a pair of diodes, and wherein a cathode of a selected one of the pair of diodes is coupled to the switch.
- 3. The circuit of claim 2, further comprising:

a resistor coupled between a voltage supply and an anode of each one of the pair of diodes, wherein the resistor has a value selected so that a magnitude of a current flowing from the voltage supply through the resistor is always greater than a magnitude of a sink current coupled to the switch.

- 4. The circuit of claim 1, wherein the switch and the current path are included in a single metal oxide semiconductor field effect transistor.
- 5. The circuit of claim 1, further comprising:

a capacitor coupled to the switch and the current path, wherein the capacitor is coupled to an integrated circuit pin configured to source and sink the current.

- 6. The circuit of claim 1, wherein the current path includes a voltage clamping circuit.
- 7. A circuit, comprising:

an oscillator having a current source-sink connection;

a switch coupled to the current source-sink connection and configured to receive a synchronizing signal having an active state, and an inactive state, wherein the switch has an on state activated by the active state and deactivated by the inactive state; and

a current path coupled to the switch, wherein the current path is configured to pass a current when the on state is deactivated, and wherein the switch is configured to pass the current when the on state is activated.

- 8. The circuit of claim 7, wherein the switch is coupled to the current sourcesink connection using a capacitor.
- 9. The circuit of claim 7, wherein the oscillator is included in a pulse width modulator.
- The circuit of claim 9, further comprising:a self-oscillating, push-pull switching circuit coupled to the oscillator.
- 11. The circuit of claim 10, wherein the self-oscillating, push-pull switching circuit is a Royer-class converter.
- 12. The circuit of claim 10, further comprising:

  at least one cold-cathode fluorescent lamp coupled to the self-oscillating,
  push-pull switching circuit.

13. A computer, comprising:

a processor;

at least one cold-cathode fluorescent lamp capable of being communicatively coupled to the processor;

an oscillator having a current source-sink connection;

a switch coupled to the current source-sink connection and configured to receive a synchronizing signal having an active state and an inactive state, wherein the switch has an on state activated by the active state and deactivated by the inactive state;

a current path coupled to the switch, wherein the current path is configured to pass a current when the on state is deactivated, and wherein the switch is configured to pass the current when the on state is activated; and

a self-oscillating, push-pull switching circuit coupled to the oscillator and to the at least one cold-cathode fluorescent lamp.

14. The computer of claim 13, further comprising:

a global positioning system receiver capable of being communicatively coupled to the processor.

15. The computer of claim 14, further comprising:

a display capable of being communicatively coupled to the processor and lighted by the at least one cold-cathode fluorescent lamp.

16. A method of adjusting the operation of an oscillator, comprising: connecting a first capacitor to a timing input of the oscillator; connecting a switch to the first capacitor;

activating the switch using a synchronizing signal in a first state to pass a current from the timing input through the switch to charge the first capacitor,

wherein a cycle of the synchronizing signal is shorter than a free-running cycle of an oscillation signal of the oscillator; and

deactivating the switch using the synchronizing signal in a second state to pass the current through a second capacitor.

- 17. The method of claim 16, wherein the first capacitor is a physical capacitor and the second capacitor is a stray capacitance associated with the switch.
- 18. The method of claim 16, wherein the switch includes a transistor.
- 19. The method of claim 18, wherein the synchronizing signal in the first state places the transistor in a saturated mode of operation.
- 20. A method of operating a power converter, comprising: coupling an oscillator to a power converter; coupling a first capacitor to a timing input of the oscillator; charging the first capacitor using a current which flows out of the timing input;

adding a second capacitor in series with the first capacitor to change the charging time of a series combination of the first and second capacitors to be shorter than a charging time of the first capacitor; and

discharging the first and second capacitors using a current which flows into the timing input.

21. The method of claim 20, wherein charging the first capacitor using a current which flows out of the timing input further comprises: coupling a switch to the first capacitor; and

activating the switch to charge the first capacitor using a synchronizing signal in a first state, the synchronizing signal having a cycle which is shorter than a cycle of an oscillation signal of the oscillator.

22. The method of claim 21, wherein adding a second capacitor in series with the first capacitor to change the charging time of a series combination of the first and second capacitors further comprises:

deactivating the switch to charge the series combination of the first and second capacitors, wherein the second capacitor is a stray capacitance associated with the switch.

- 23. The method of claim 21, wherein discharging the first capacitor using a current which flows into the timing input further comprises:
  deactivating the switch using the synchronizing signal in a second state.
- 24. The method of claim 23, wherein a time period during which the synchronizing signal is in the second state is substantially less than a time period during which the synchronizing signal is in the first state.
- 25. The method of claim 23, wherein a sum of a time period during which the synchronizing signal is in the second state and a time period during which the synchronizing signal is in the first state is less than a time period of a cycle of an oscillation signal of the oscillator.